FIG. 1

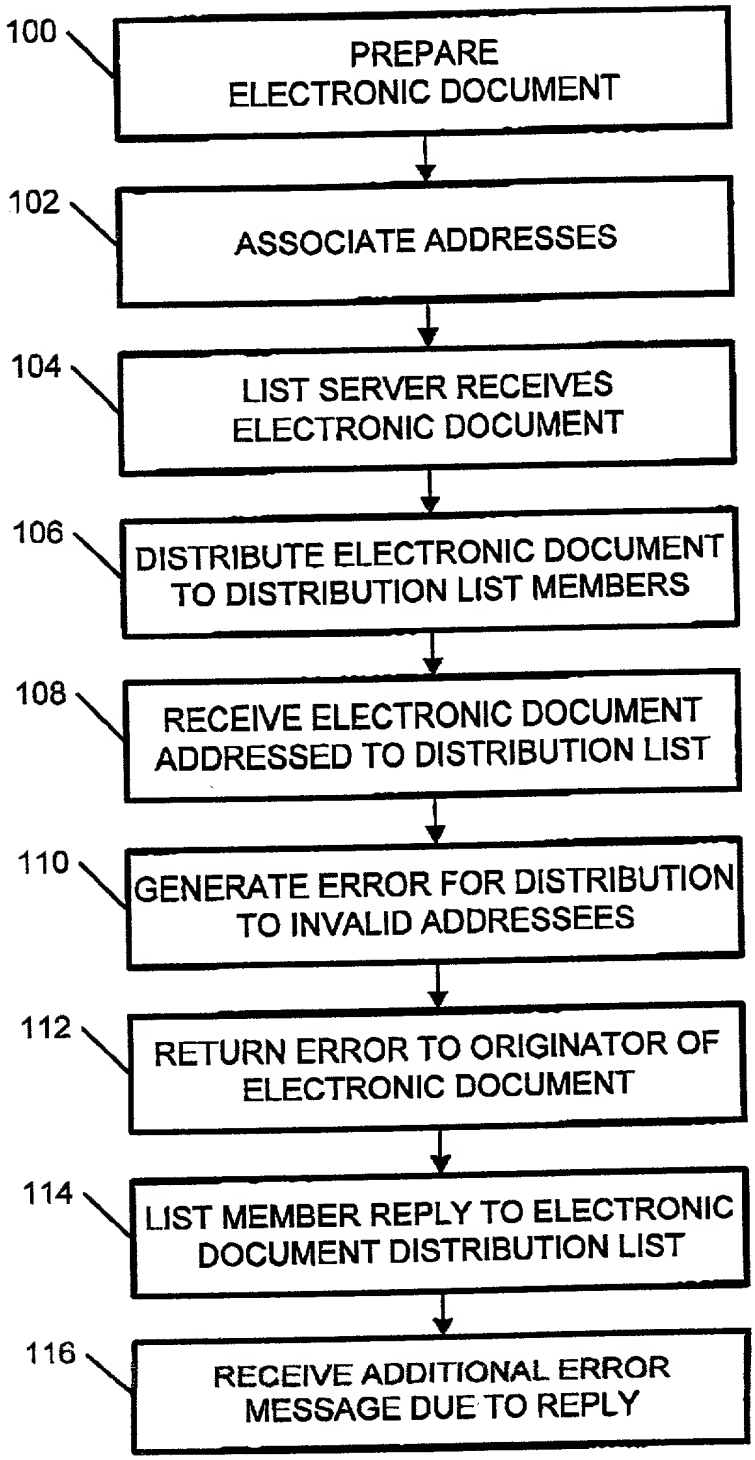

100
PREPARE ELECTRONIC DOCUMENT
102
ASSOCIATE ADDRESSES
104
LIST SERVER RECEIVES ELECTRONIC DOCUMENT
106
DISTRIBUTE ELECTRONIC DOCUMENT TO DISTRIBUTION LIST MEMBERS
108
RECEIVE ELECTRONIC DOCUMENT ADDRESSED TO DISTRIBUTION LIST
110
GENERATE ERROR FOR DISTRIBUTION TO INVALID ADDRESSEES
112
RETURN ERROR TO ORIGINATOR OF ELECTRONIC DOCUMENT
114
LIST MEMBER REPLY TO ELECTRONIC DOCUMENT DISTRIBUTION LIST
116
RECEIVE ADDITIONAL ERROR MESSAGE DUE TO REPLY

FIG. 2

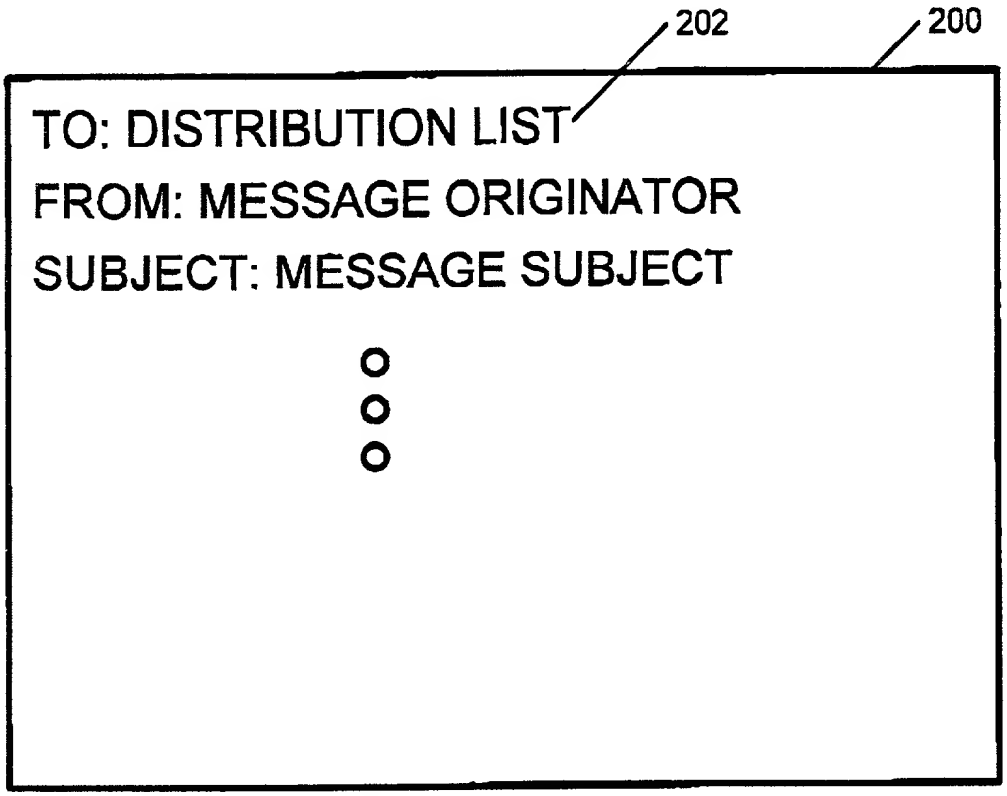

202
200
TO: DISTRIBUTION LIST
FROM: MESSAGE ORIGINATOR
SUBJECT: MESSAGE SUBJECT

FIG. 3

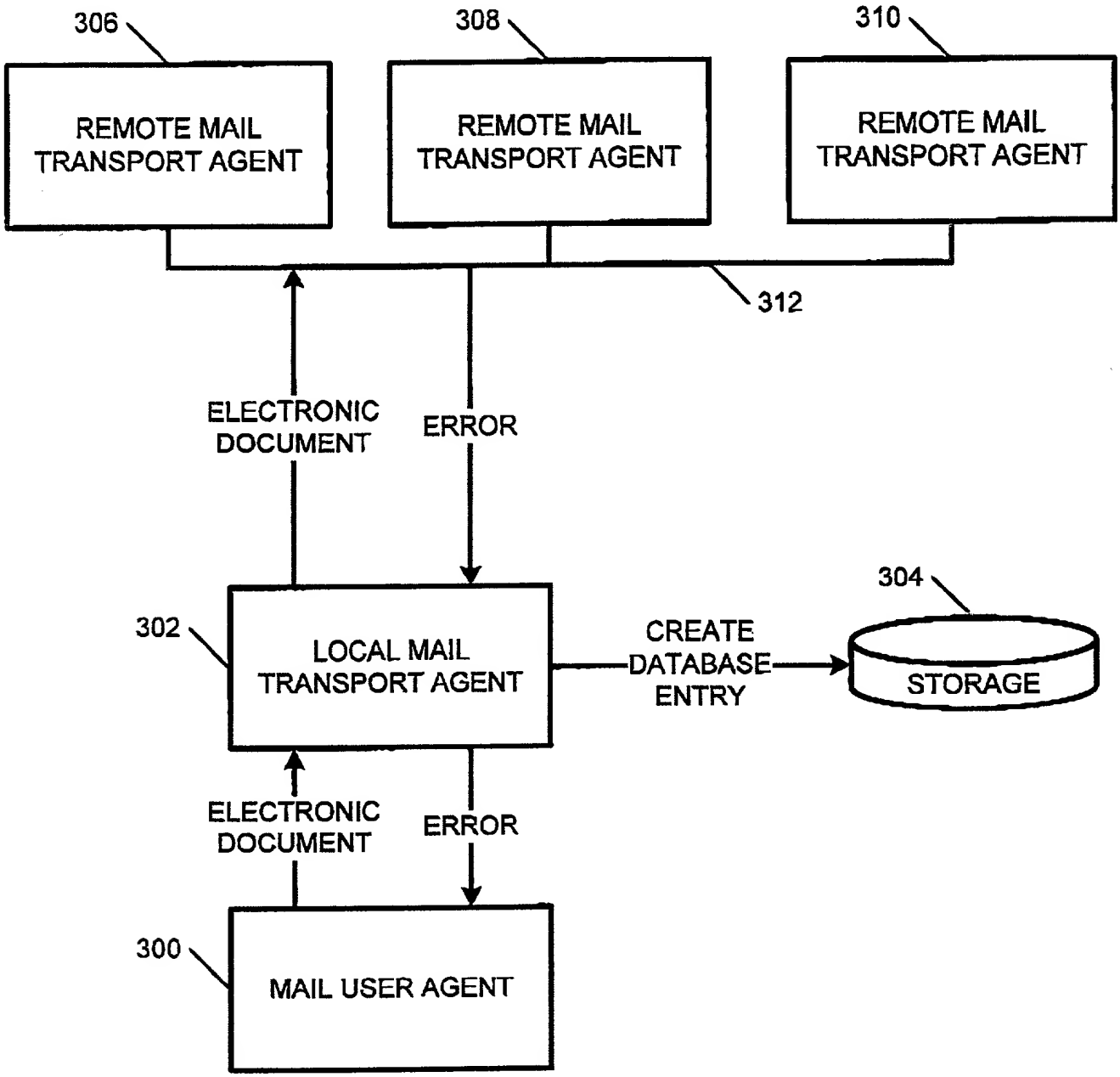

306
308
310
REMOTE MAIL TRANSPORT AGENT
REMOTE MAIL TRANSPORT AGENT
REMOTE MAIL TRANSPORT AGENT
312
ELECTRONIC DOCUMENT
ERROR
304
302
LOCAL MAIL TRANSPORT AGENT
CREATE DATABASE ENTRY
STORAGE
ELECTRONIC DOCUMENT
ERROR
300
MAIL USER AGENT

FIG. 4

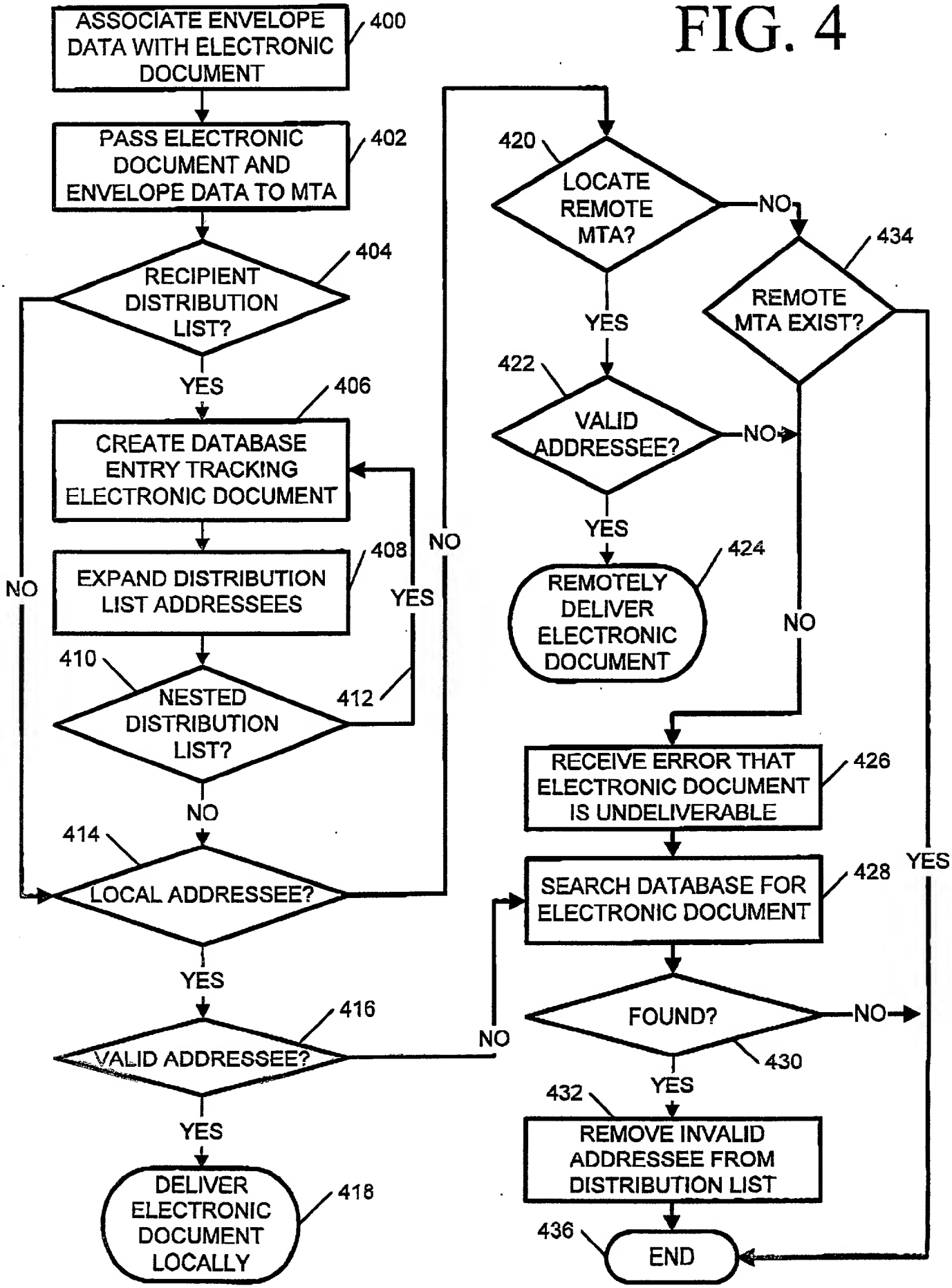
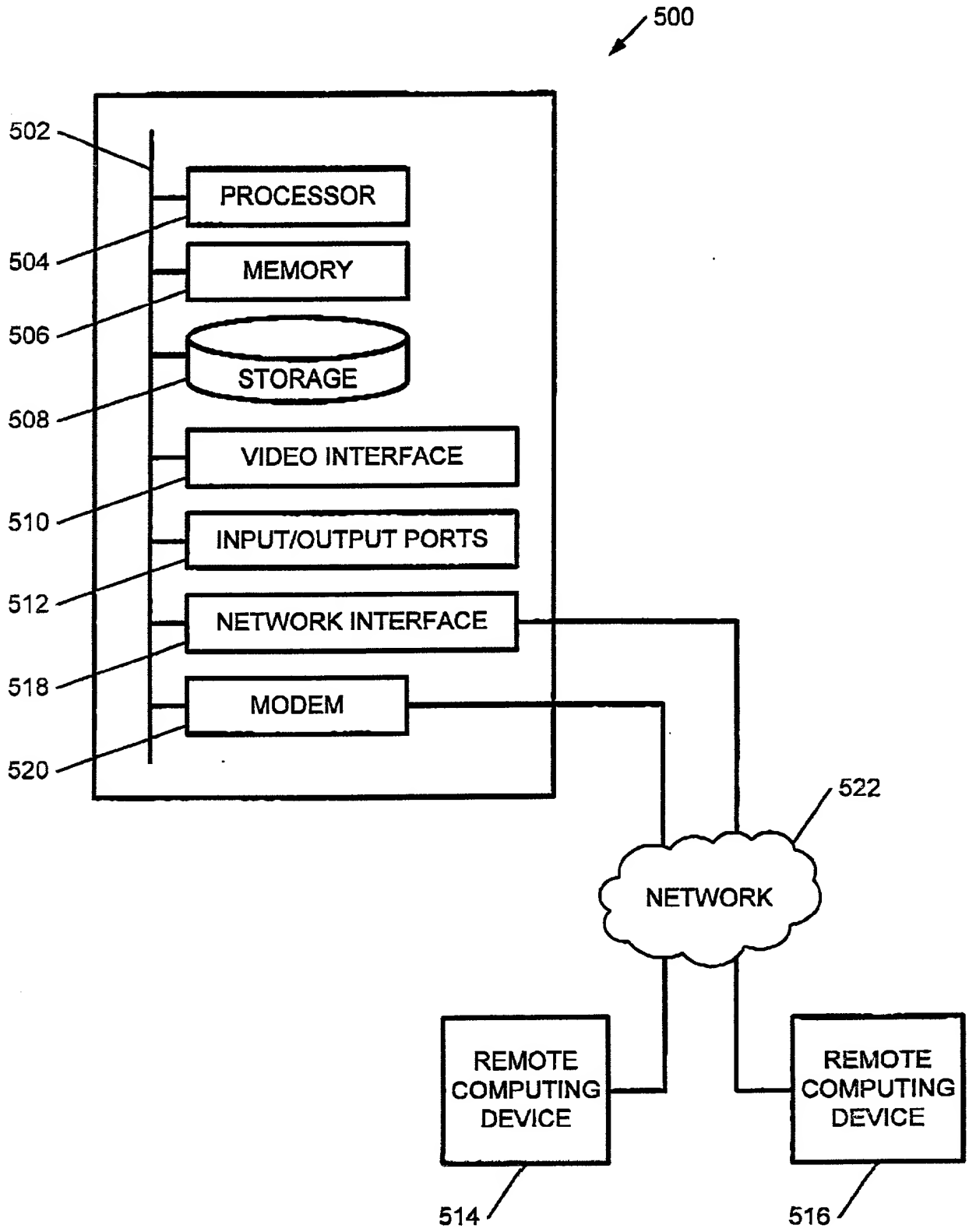

ASSOCIATE ENVELOPE DATA WITH ELECTRONIC DOCUMENT
400
PASS ELECTRONIC DOCUMENT AND ENVELOPE DATA TO MTA
402
RECIPIENT DISTRIBUTION LIST?
404
YES
NO
CREATE DATABASE ENTRY TRACKING ELECTRONIC DOCUMENT
406
EXPAND DISTRIBUTION LIST ADDRESSEES
408
NESTED DISTRIBUTION LIST?
410
412
YES
NO
LOCAL ADDRESSEE?
414
YES
NO
VALID ADDRESSEE?
416
YES
NO
DELIVER ELECTRONIC DOCUMENT LOCALLY
418
LOCATE REMOTE MTA?
420
YES
NO
VALID ADDRESSEE?
422
YES
NO
REMOTELY DELIVER ELECTRONIC DOCUMENT
424
REMOTE MTA EXIST?
434
YES
NO
RECEIVE ERROR THAT ELECTRONIC DOCUMENT IS UNDELIVERABLE
426
SEARCH DATABASE FOR ELECTRONIC DOCUMENT
428
FOUND?
430
YES
NO
REMOVE INVALID ADDRESSEE FROM DISTRIBUTION LIST
432
END
436

FIG. 5


500
502
PROCESSOR
504
MEMORY
506
STORAGE
508
VIDEO INTERFACE
510
INPUT/OUTPUT PORTS
512
NETWORK INTERFACE
518
MODEM
520
522
NETWORK
REMOTE COMPUTING DEVICE
514
REMOTE COMPUTING DEVICE
516